

Docket No.: 1268-073

PATENT

#16/5
1/6
1/45/01

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of

Shai YARKONI, et al.

Serial No. 09/147,346

Filed: December 4, 1998



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Group Art Unit: 1646

Examiner: L. Helms

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For: CHIMERIC TOXINS FOR TARGETED THERAPY

AMENDMENT AND RESPONSE

Assistant Commissioner For Patents
Washington, D. C. 20231

Sir:

IN THE CLAIMS:

Kindly amend the following claims as indicated:

1. (Three times amended) Targeted fused chimeric toxins comprising a genetically engineered molecule fused at the level of cDNA comprising at least one cell targeting moiety encoding GnRH and adapted to recognize specific cells bearing gonadotropin releasing hormone binding sites and at least one cell killing moiety adapted to kill specific cells bearing gonadotropin releasing hormone binding sites, wherein the at least one cell targeting moiety consists essentially of gonadotropin releasing hormone and the at least one cell killing moiety consists essentially of a cell killing toxin.

2. (Twice amended) Targeted fused chimeric toxins according to claim 1 wherein the specific cells bearing gonadotropin releasing hormone binding sites are at least one member selected from the group consisting of malignant adenocarcinoma cells; benign uterine leiomyoma cells, endometrial island cells and pituitary tumor adenoma cells.